



## Elemental Analysis Service

Please send completed form and samples to:

Stephen Boyer  
School of Human Sciences  
Science Centre  
London Metropolitan University  
29 Hornsey Road  
London N7 7DD

Telephone: 020 7133 3605  
Fax: 020 7133 2577  
Email: [s.boyer@londonmet.ac.uk](mailto:s.boyer@londonmet.ac.uk)

<b>Sample submitted by:</b> Izar Capel Berdiell	
<b>Address:</b> Leeds LS2 9JT	
<b>Telephone:</b> 07871257829	<b>Email:</b> cmic@leeds.ac.uk
<b>Date Submitted:</b> 9/03/2018	

Please submit ca. 5 mg of sample.

Sample Reference No.: ICB- Co - B
Name of Compound: bis (TPT) cobalt (II) tetrafluoroborate
Molecular Formula: $C_{24}H_{18}B_2CoF_8N_{18}$
Stability: —
Hazards: unknown
Other Remarks: -

Element	Expected %	Found (1)	Found (2)	
Carbon	36.44	36.55	36.59	
Hydrogen	2.29	2.35	2.38	
Nitrogen	31.87	31.64	31.72	

Authorising Signature:

Date Completed: 190318 JB
Signature:
Comments:



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<b>Sample submitted by:</b> Izar Capel Berdiell
<b>Address:</b> Leeds LS2 9JT
<b>Telephone:</b> 07871257829 <b>Email:</b> cmic@leeds.ac.uk
<b>Date Submitted:</b> 10/02/2018

Please submit ca. 5 mg of sample.

Sample Reference No.: ICB- Ni - B
Name of Compound: bis (tpf) Nickel (II) tetrathioetherate
Molecular Formula: Ni C <sub>24</sub> H <sub>18</sub> N <sub>18</sub> B <sub>2</sub> F <sub>8</sub>
Stability: It may decompose at H Temp with air
Hazards: unknown
Other Remarks: -

Element	Expected %	Found (1)	Found (2)	
Carbon	36.45	36.37	36.33	
Hydrogen	2.29	2.12	2.20	
Nitrogen	31.88	31.70	31.70	

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Sample submitted by: Izar Capel Berdiell	
Address: Leeds LS2 9JT	
Telephone: 07871257829	Email: cmic@leeds.ac.uk
Date Submitted: 12/1/2018	

Please submit ca. 5 mg of sample.

Sample Reference No.: ICB- Ni-C
Name of Compound: bis (TPT) Nickel II perchlorate
Molecular Formula: $C_{24}H_{18}N_{18}NiCl_4O_8$
Stability: —
Hazards: —
Other Remarks: —


Element	Expected %	Found (1)	Found (2)	
Carbon	35.32	35.15	35.22	
Hydrogen	2.22	2.15	2.13	
Nitrogen	30.89	30.80	30.80	

Authorising Signature:

Date Completed: 23/01/18
Signature:
Comments:



**Request Form**

Name. ....IZAR CAPEL.....	Account No. ....RG.CHEM.103959 M Halcrow.....
Sample ref. ....ICB-1-55-Mn.....	Supervisor. ....MALCOLM HALCROW.....
Department. ....Inorganic Chemistry.....	Signature. ....  .....
Room No. ....1.29..... Tel. ....36419.....	Date. ....27-05/2016.....
e-mail. ....CMIC@LEEDS.AC.UK.....	(Please fill in fully & in BLOCK CAPITALS, failure could result in delay)

**Properties & Hazards**

	YES	NO	Unknown
Non Hazardous	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Toxic	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Carcinogenic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Explosive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air Sensitive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hygroscopic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Light Sensitive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Volatile	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electrostatic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Strong odour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other. ....

M/pt. / B/pt. .... °C

Solid ☒, Liquid ☐

Type of compound <sup>0.9990</sup> - metal complex

**Structure & Empirical Formula**



Formula. .... $C_{24}H_{18}Cl_2MnO_8M_{18}$ .....

Is there POSSIBILITY for the presence of FLUORINE? YES ☐ / NO ☒

Analysis Required	Theoretical (%)	Found (%)
Carbon <input checked="" type="checkbox"/>	35.5	35.20
Hydrogen <input checked="" type="checkbox"/>	2.2	2.30
Nitrogen <input checked="" type="checkbox"/>	31.0	31.00
Sulphur <input type="checkbox"/>		
Halogen <input type="checkbox"/>		
Other #1 <input type="checkbox"/>		
Other #2 <input type="checkbox"/>		
Other #3 <input type="checkbox"/>		

Micro ID: 227/2016

; Signature:

6.6.2016 T.M.C

(Office use only)





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<b>Address:</b> Leeds LS2 9JT	
<b>Telephone:</b> 07871257829	<b>Email:</b> cmic@leeds.ac.uk
<b>Date Submitted:</b> 25/4 /2018	

Please submit ca. 5 mg of sample.

Sample Reference No.: ICB- 81-13
Name of Compound: bis (tris pyrazole - pyrimidine) iron (II) tetrafluoroborate
Molecular Formula: $C_{26}H_{20}N_{16}FeB_2F_8$
Stability: —
Hazards: —
Other Remarks: —

Element	Expected %	Found (1)	Found (2)	
Carbon	39.73	39.48	39.56	
Hydrogen	2.56	2.61	2.68	
Nitrogen	28.51	28.71	28.20	

Authorising Signature:

Date Completed:
Signature:
Comments:

## Elemental Analysis Service

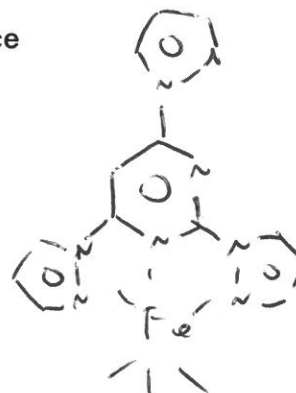
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<b>Address:</b> Leeds LS2 9JT	
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<b>Date Submitted:</b> 30/01/2017	

Please submit ca. 5 mg of sample.

Sample Reference No.: ICB- 8-PO
Name of Compound: bis(3,4,6-tripicolyl)-pyrimidine iron(II) perchlorate (hexahydrate)
Molecular Formula: $C_{27}H_{23}N_{17}Cl_2O_{10}Fe$
Stability: unknown
Hazards: unknown
Other Remarks: - [solvent molecule contained]

Element	Expected %	Found (1)	Found (2)	
Carbon	37.18	37.24	37.33	
Hydrogen	2.66	2.40	2.48	
Nitrogen	27.30	27.12	27.17	

Authorising Signature:

Date Completed: 08/02/17 Signature: 
Comments: